

V&V Reference Report

L2 ASCDS Version : 8.4.5

Observation 14036 - L2 Version 1
Chandra X-Ray Center

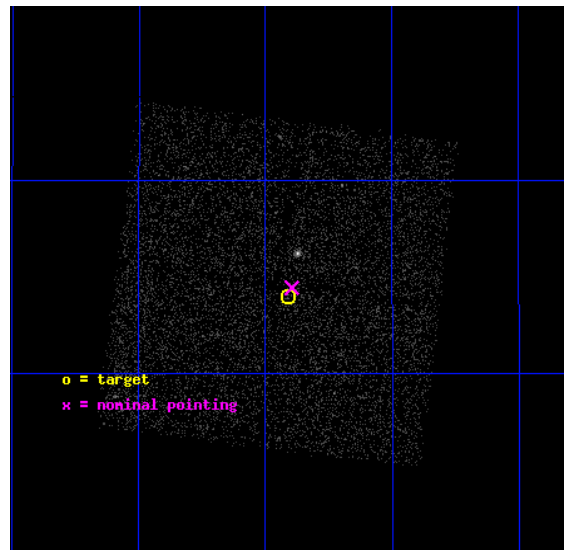
L2 Processing Date : Jun 22 2012

Contents

1	Front	2
2	OBI	3
2.1	OBI	3
2.1.1	Images	3
2.1.2	Bias	3
2.1.3	Parameters	4
2.1.4	Events	4
2.2	Compared Parameters	5
2.3	Aspect	6
2.4	Star Slots	9
2.4.1	Slot 3	9
2.4.2	Slot 4	10
2.4.3	Slot 5	11
2.4.4	Slot 6	12
2.4.5	Slot 7	13
2.5	FID Slots	14
2.5.1	Slot 0	14
2.5.2	Slot 1	15
2.5.3	Slot 2	16
A	Summary	17
A.1	Status	17
A.2	Comments	17

1 Front

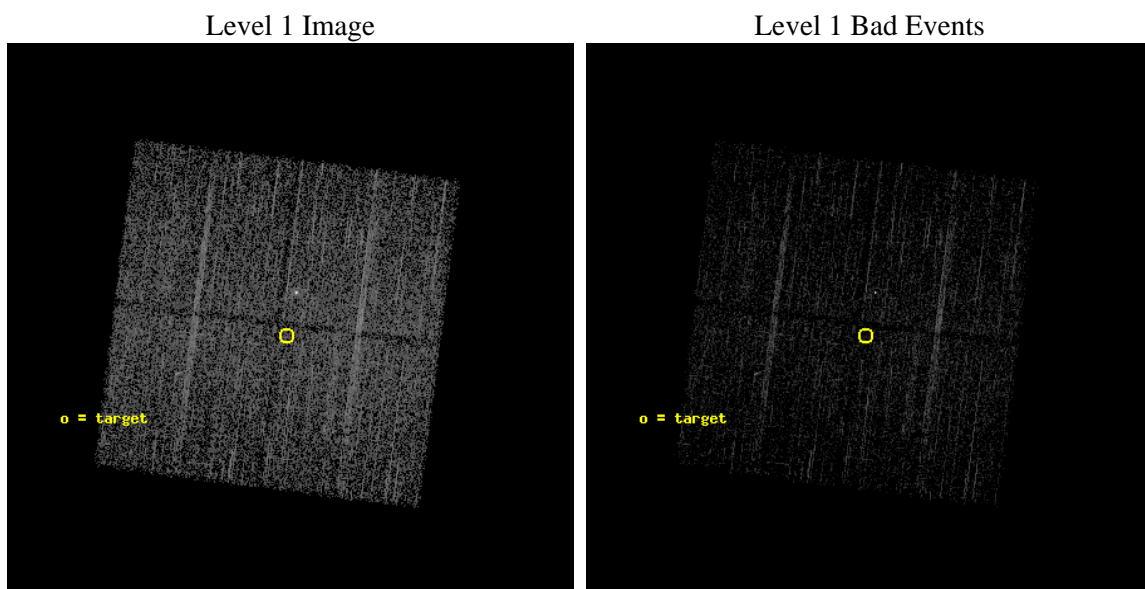
seq_num	901002	Sequence number
obs_id	14036	Observation id
title	BAT, Chandra, NuSTAR and The origin of the Cosmic X-ray Background	
observer	Dr. Marco Ajello	Principal investigator
object	J0233.4+2754	Source name
dtcycle	0	
cycle	P	events from which exps? Prim/Second/Both
ra_targ	38.352917	Observer's specified target RA [deg]
dec_targ	27.9	Observer's specified target Dec [deg]
ra_nom	38.349016379119	Nominal RA [deg]
dec_nom	27.907384038773	Nominal Dec [deg]
roll_nom	97.186436008398	Nominal Roll [deg]
revision	1	Processing version of data
ontime	5086.9610050321	Sum of GTIs [s]
livetime	5020.4961145351	Livetime [s]
ontime0	5083.6969246864	Sum of GTIs [s]
ontime1	5083.7379646897	Sum of GTIs [s]
ontime2	5086.9199650288	Sum of GTIs [s]
ontime3	5086.9610050321	Sum of GTIs [s]
l2events	12963	Number of level 2 events



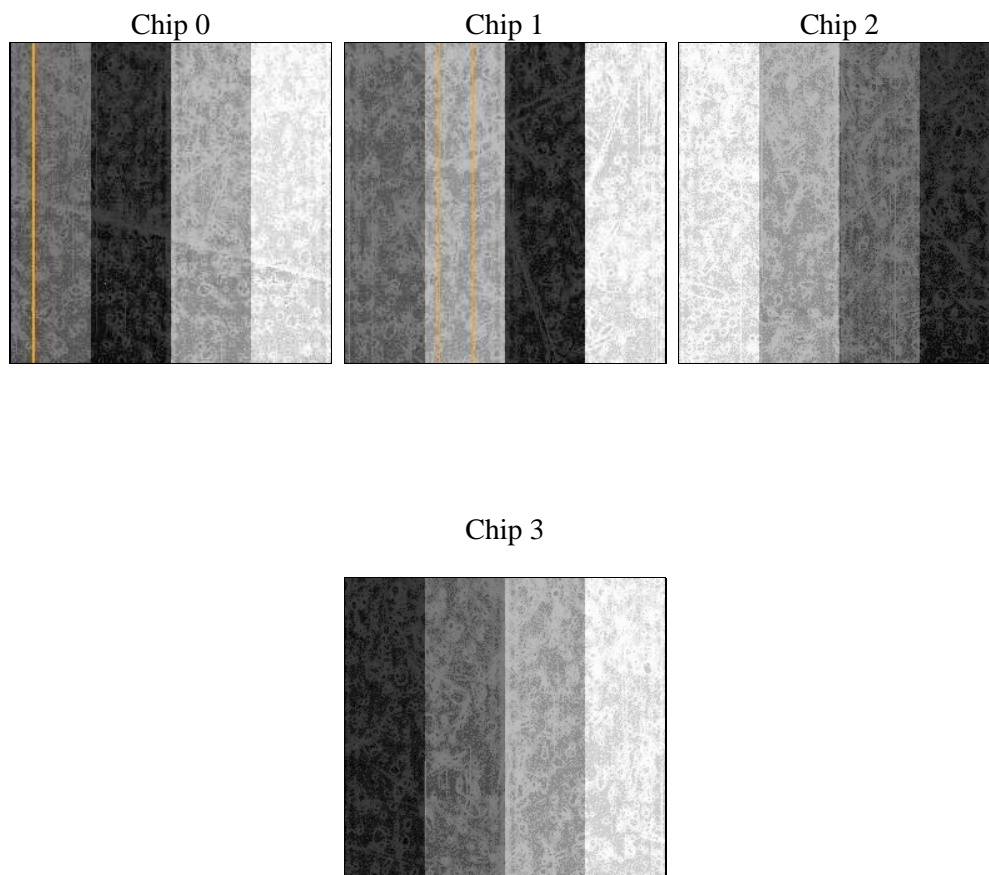
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0	Obi number	sched_exp_time	5000.000000	[s] Scheduled observation exposure time
ascdsver	8.4.5	Processing system revision	ontime	5086.9610050321	Sum of GTIs [s]
caldsver	4.4.10	 	ontime0	5083.6969246864	Sum of GTIs [s]
date	2012-06-22T13:58:16	Date and time of file creation	ontime1	5083.7379646897	Sum of GTIs [s]
revision	1	Processing version of data	ontime2	5086.9199650288	Sum of GTIs [s]
			ontime3	5086.9610050321	Sum of GTIs [s]
			l1events	109957	Number of level 1 events

2.1.4 Events

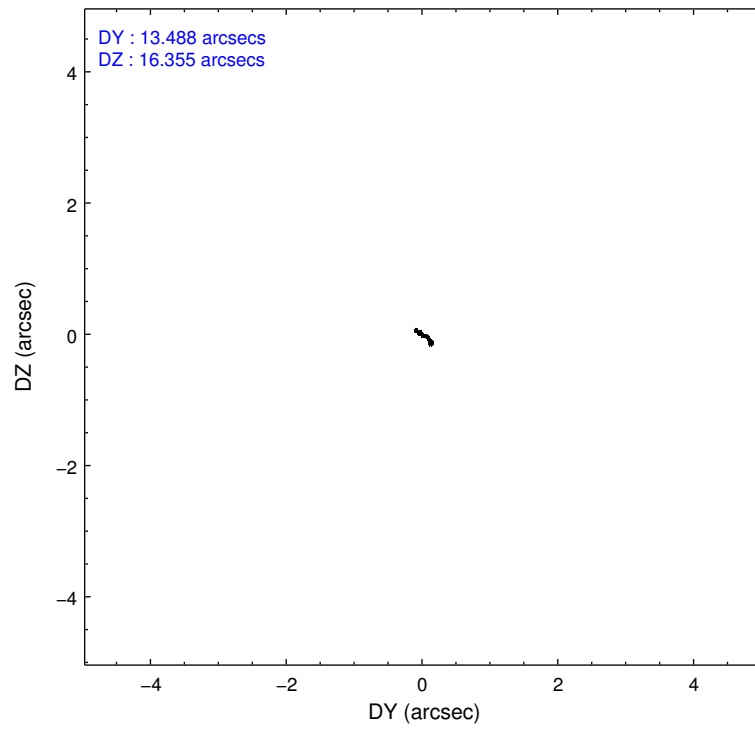
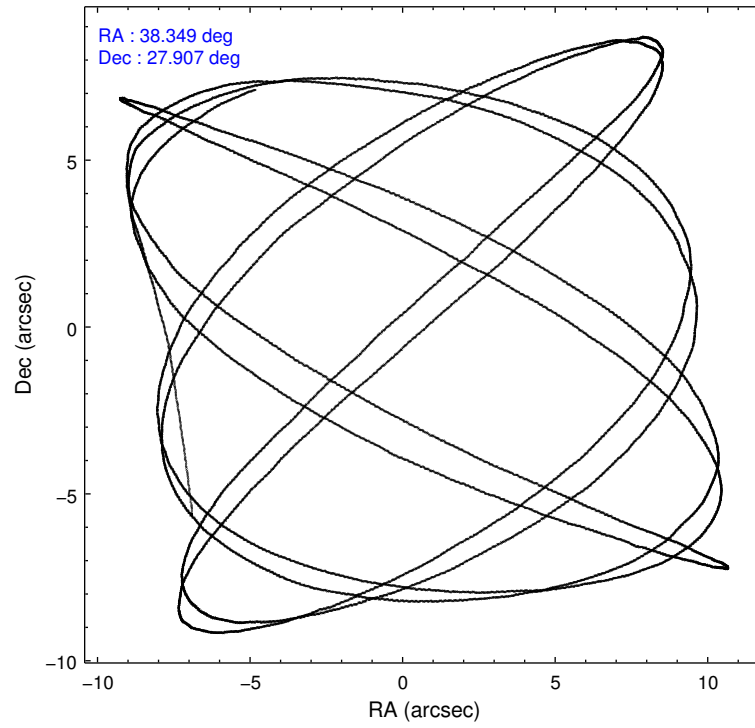
	ccd 0	ccd 1	ccd 2	ccd 3
level 1 events	25224	26101	30991	27641
rejected events	21939	22406	26006	24487
rejected %	86%	85%	83%	88%

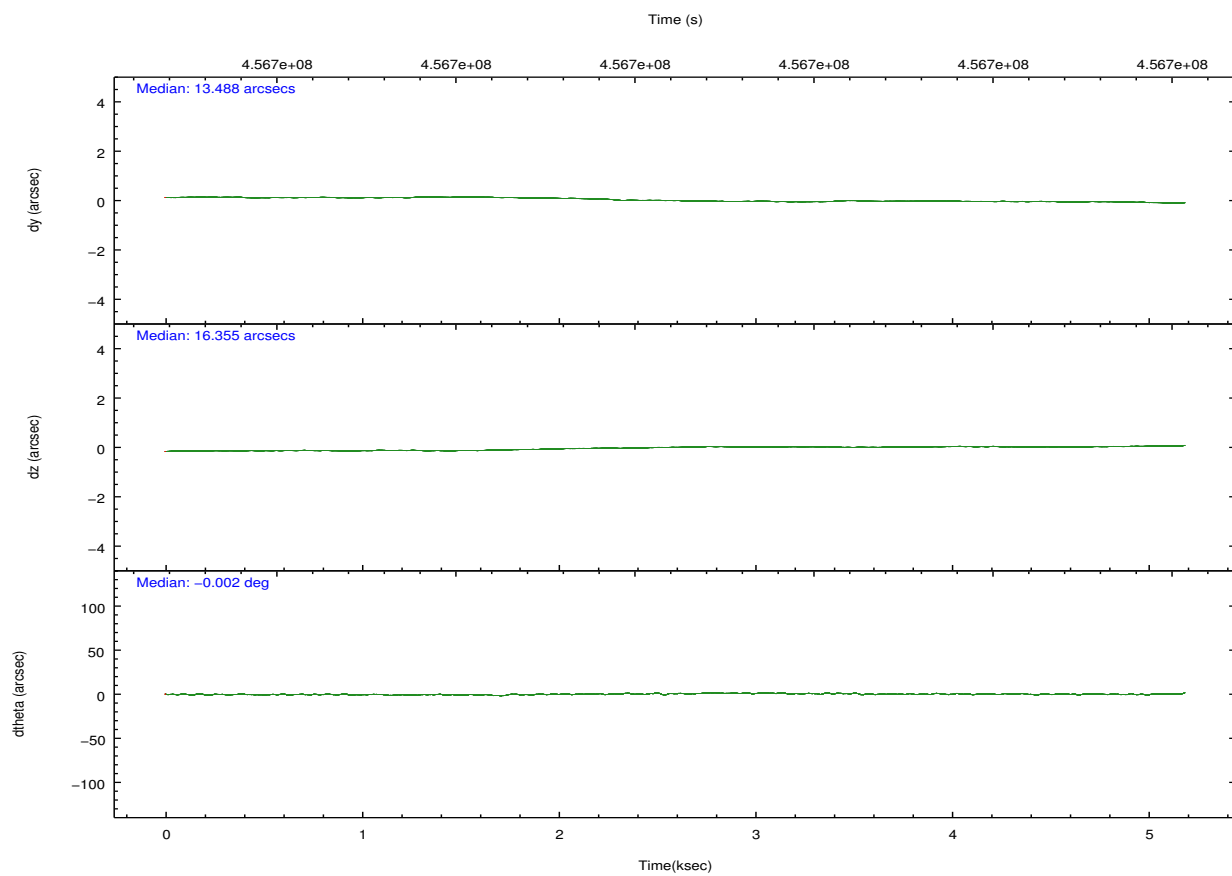
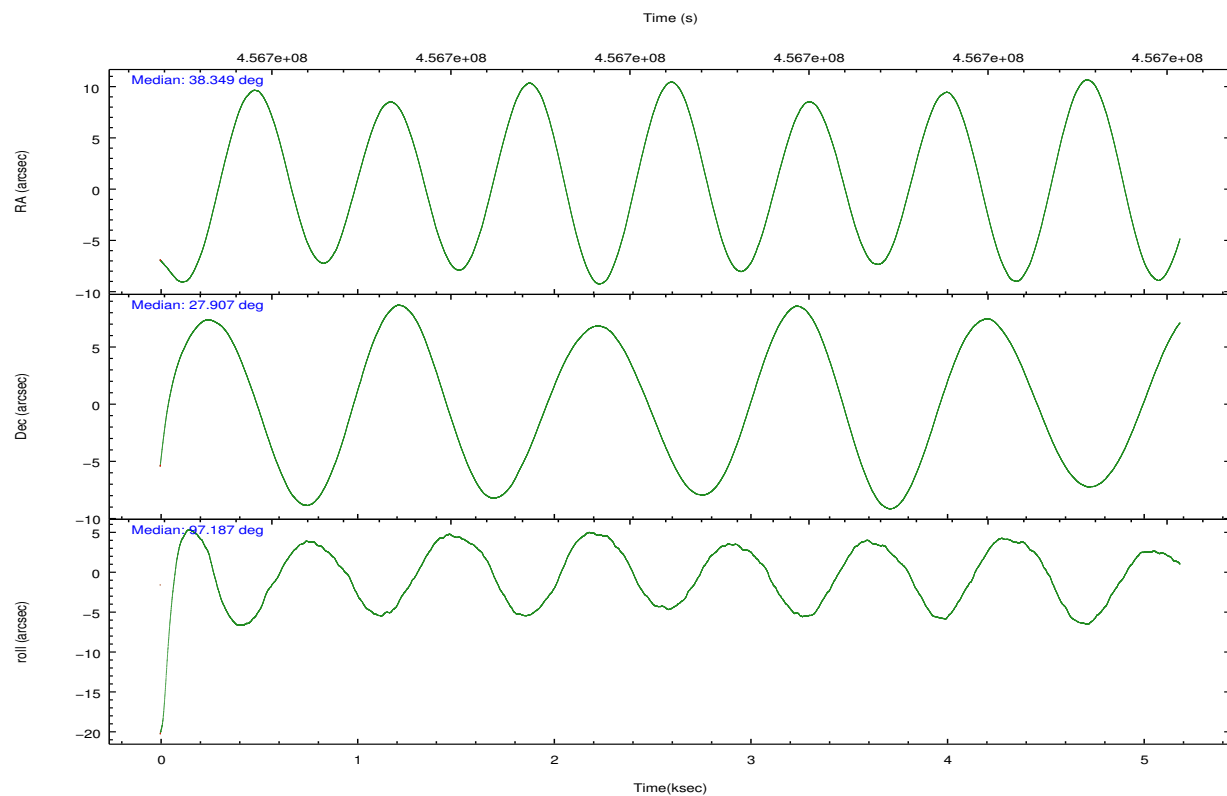
	ccd 0	ccd 1	ccd 2	ccd 3
grade 0 events	1147	1271	2190	1112
	4%	4%	7%	4%
grade 1 events	19	14	240	18
	0%	0%	0%	0%
grade 2 events	819	870	1085	709
	3%	3%	3%	2%
grade 3 events	346	388	486	342
	1%	1%	1%	1%
grade 4 events	325	362	425	340
	1%	1%	1%	1%
grade 5 events	1303	1421	1453	1453
	5%	5%	4%	5%
grade 6 events	653	805	800	651
	2%	3%	2%	2%
grade 7 events	20612	20970	24312	23016
	81%	80%	78%	83%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	7	7
Detector	ACIS-0123	ACIS-0123	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	Number of optional ACIS chips dropped	0	0
Observation mode	POINTING	POINTING	On-chip summing requested	N	N
[deg] Pointing RA	38.368030	38.34901637911872	Subarray requested	NONE	NONE
[deg] Pointing Dec	27.885516	27.90738403877305	Alternating exposures requested	N	N
[deg] Pointing Roll	96.968903	97.18643600839829	[s] Primary exposure time	0.000000	3.1
[mm] SIM focus pos	-0.782348	-0.7809083437167272			
[mm] SIM defocus	0	0.001439871863259334			
[mm] SIM translation stage pos	-233.592463	-233.5874344608287			
[mm] SIM translation stage offset	0	-0.005018542100998502			
[s] Observation start time (MET)	456697814.184000	456696032.48407			
Observation start date	2012-06-21T20:29:08	2012-06-21T20:00:32			
[s] Observation end time (MET)	456702814.184000	456703335.09696			
Observation end date	2012-06-21T21:52:28	2012-06-21T22:02:15			
Read mode	TIMED	TIMED			

2.3 Aspect



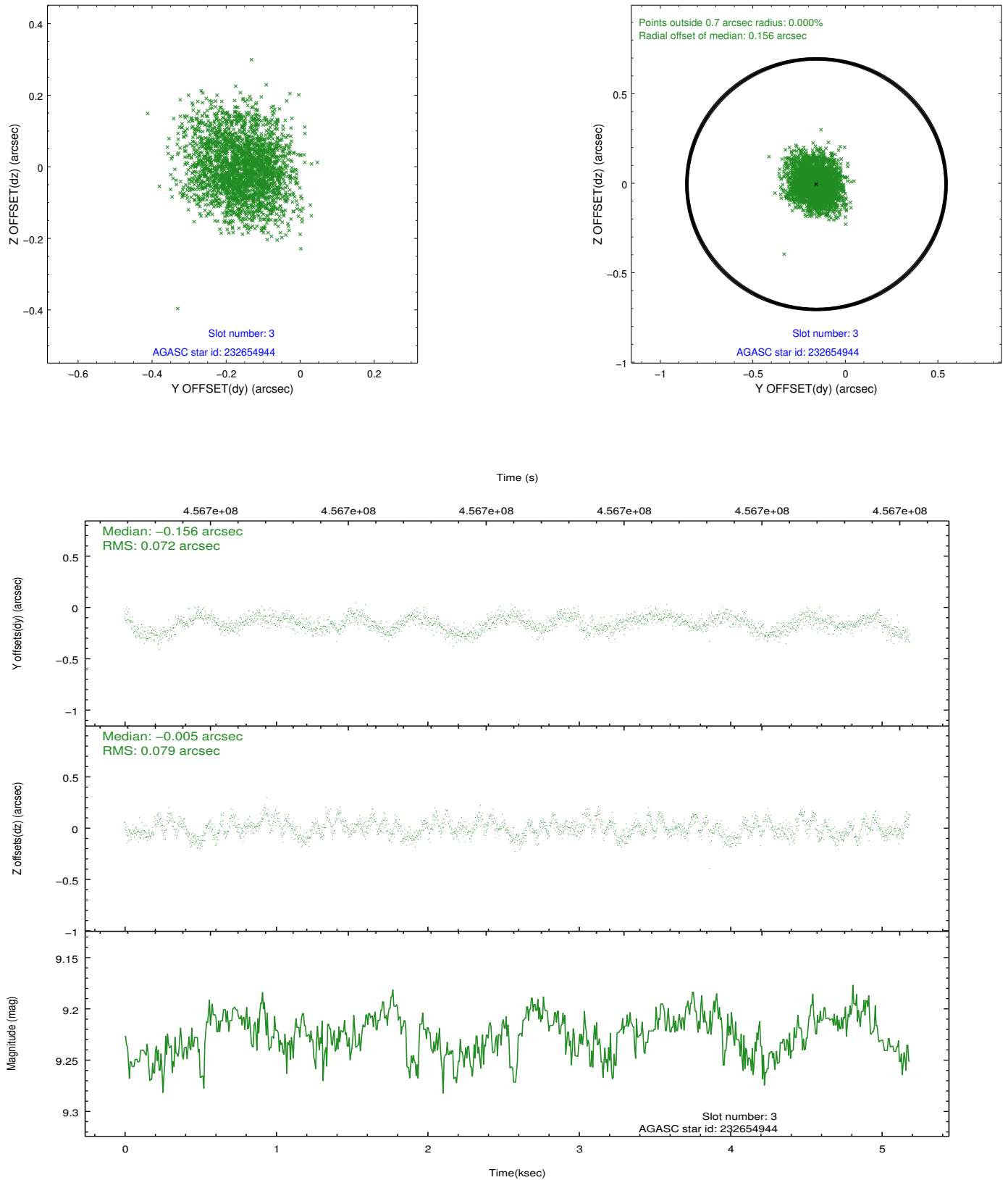


Slot Statistics

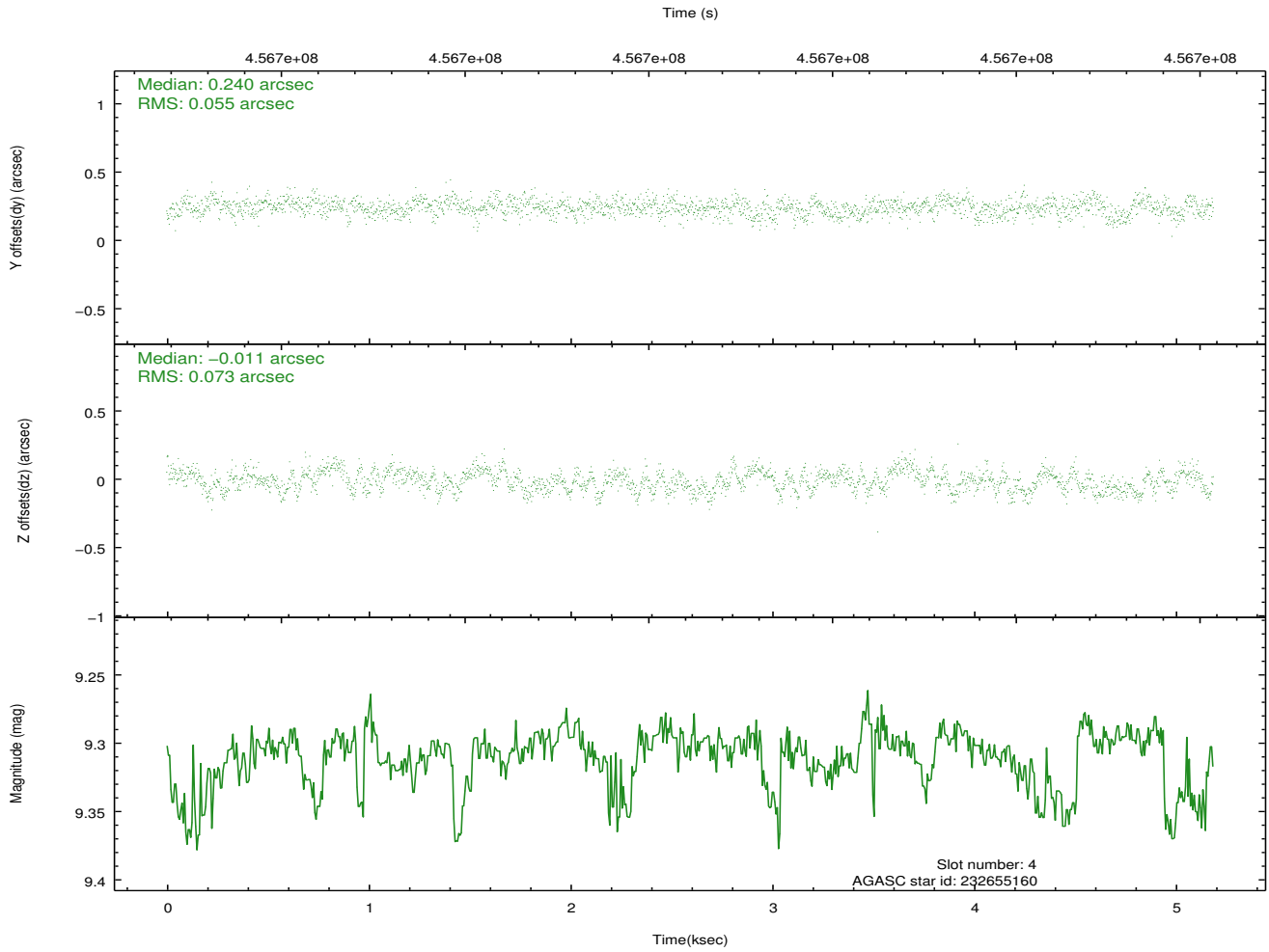
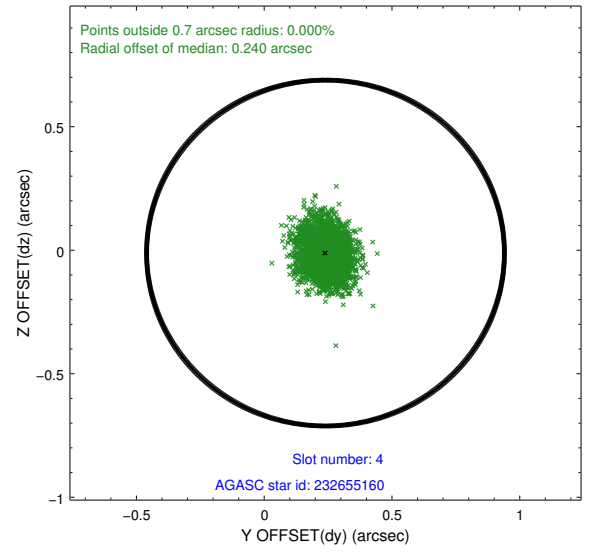
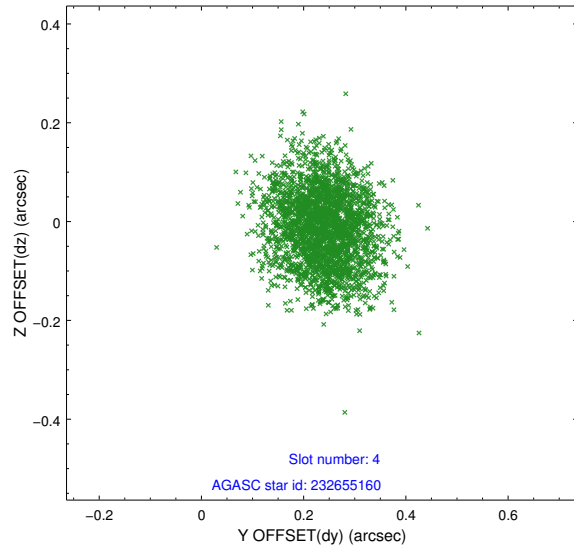
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-I-1	7.10	1266	0.093	-0.078	0.013	0.020	0.000000	0.000000	926.06	-840.03
1	FID	ACIS-I-5	7.10	1266	-0.241	0.080	0.010	0.015	0.000000	0.000000	-1821.72	1057.04
2	FID	ACIS-I-6	7.09	1266	0.058	0.069	0.008	0.012	0.000000	0.000000	390.32	1702.84
3	GUIDE	232654944	9.22	2528	-0.156	-0.005	0.116	0.181	38.279655	28.055546	641.54	204.27
4	GUIDE	232655160	9.31	2526	0.240	-0.011	0.099	0.154	38.422113	27.372161	-1855.06	52.43
5	GUIDE	232661936	8.12	2530	0.266	0.308	0.063	0.102	38.544924	27.291267	-2192.38	-302.16
6	GUIDE	233177248	8.84	2529	-0.175	0.010	0.079	0.126	38.056310	28.191853	1214.20	847.99
7	GUIDE	232524392	8.15	2530	-0.169	-0.308	0.082	0.132	37.657371	27.800075	-24.11	2282.88

2.4 Star Slots

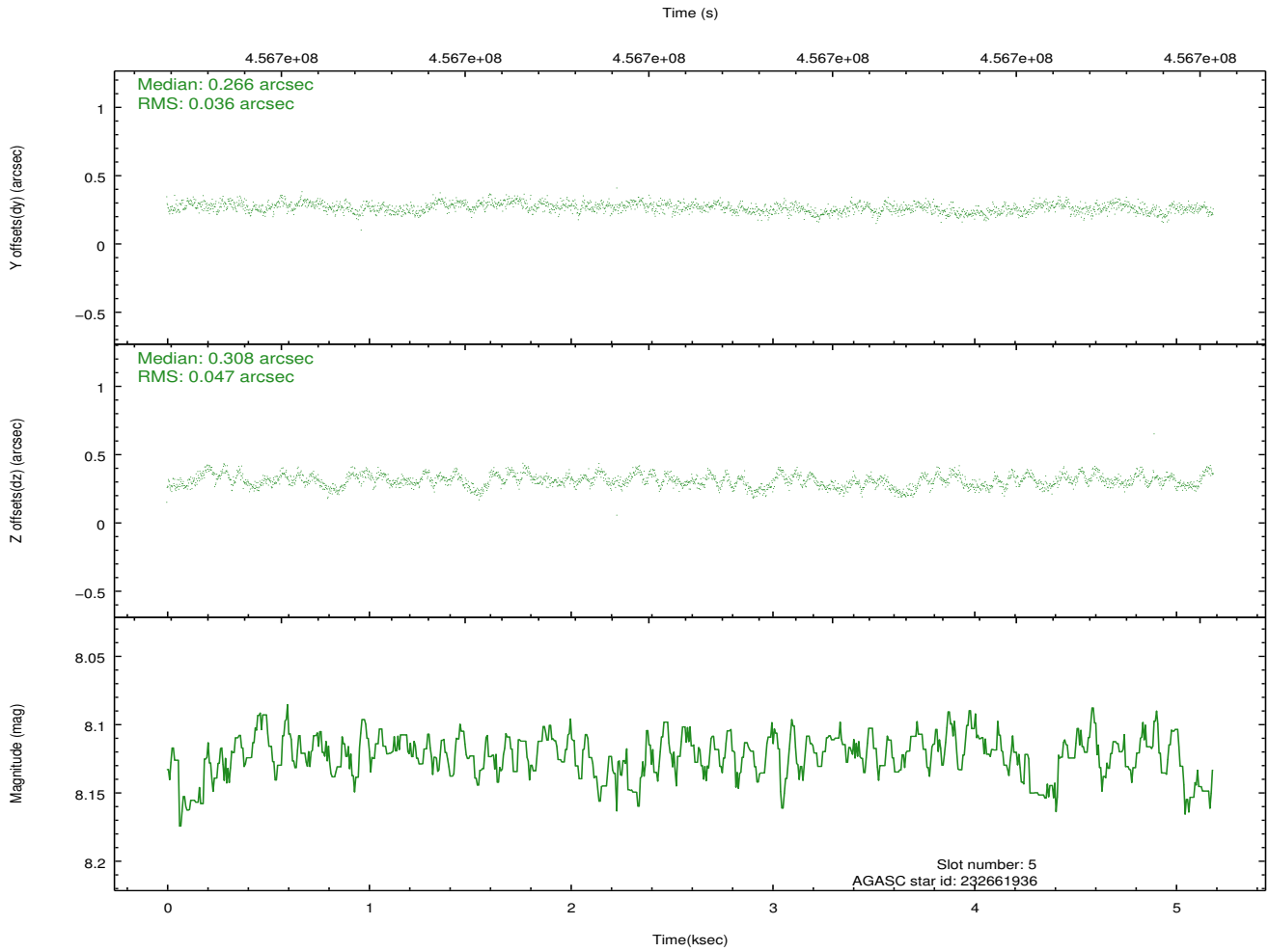
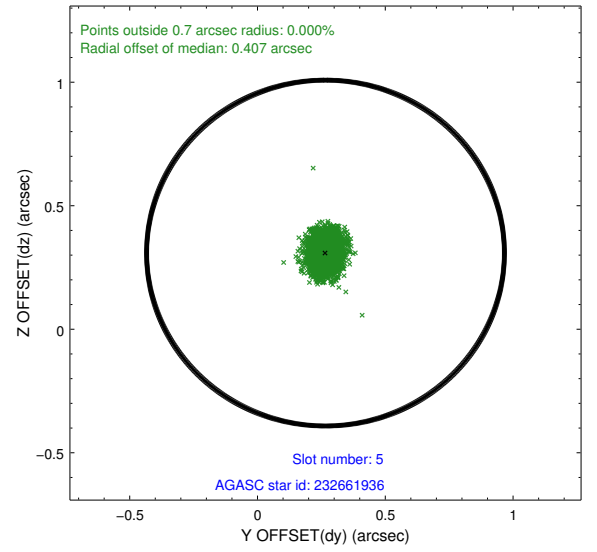
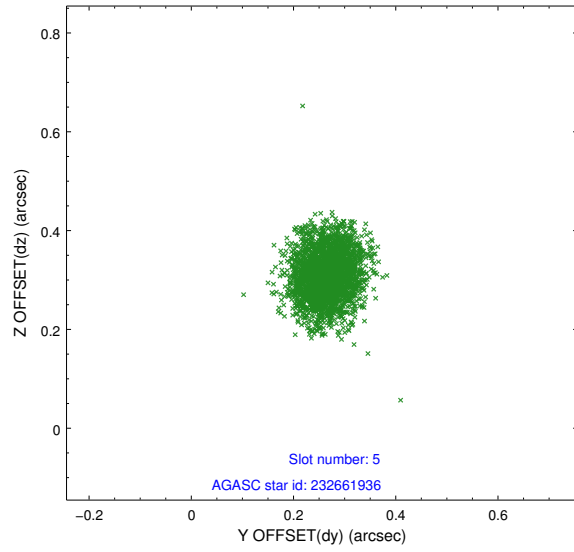
2.4.1 Slot 3



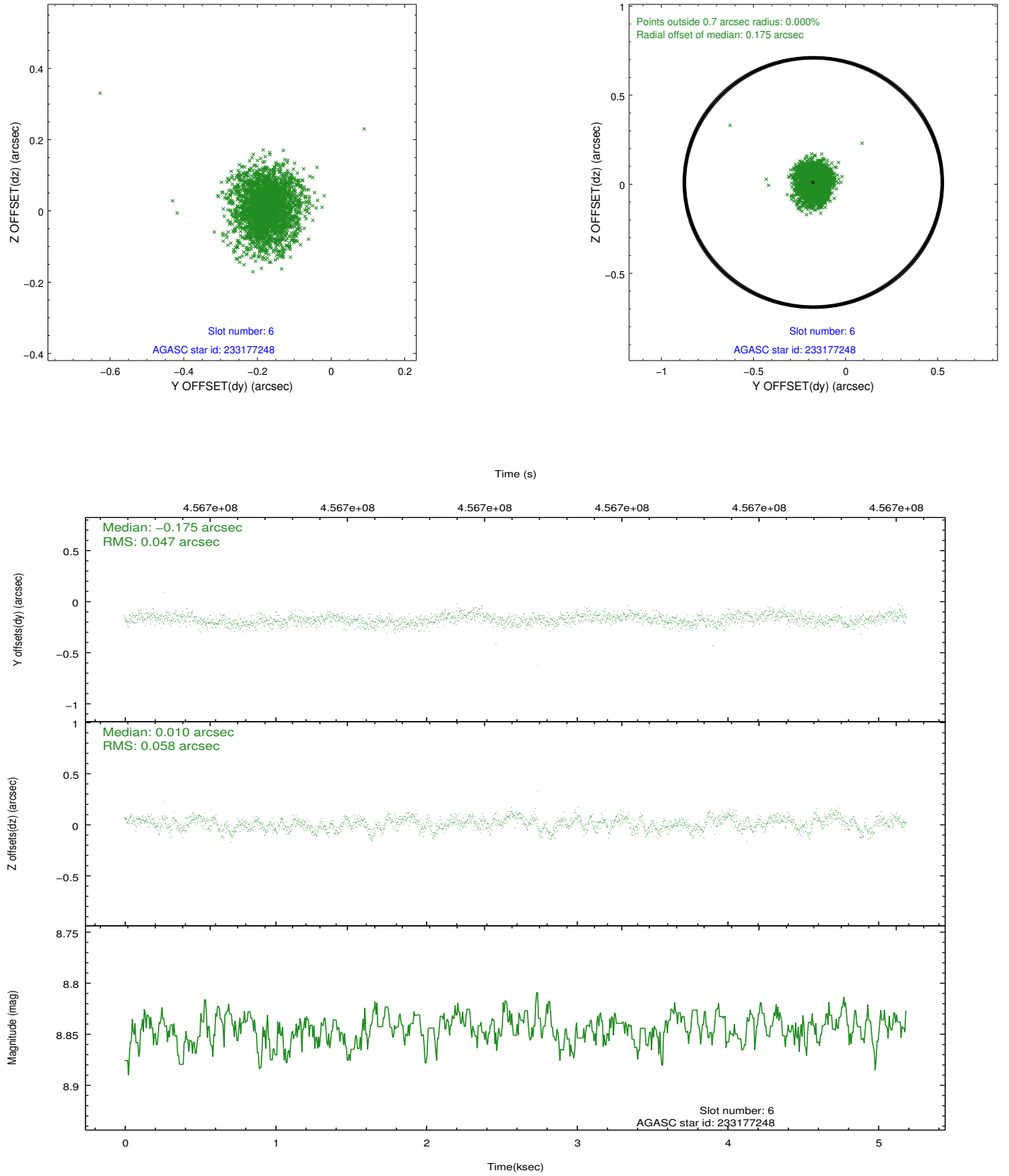
2.4.2 Slot 4



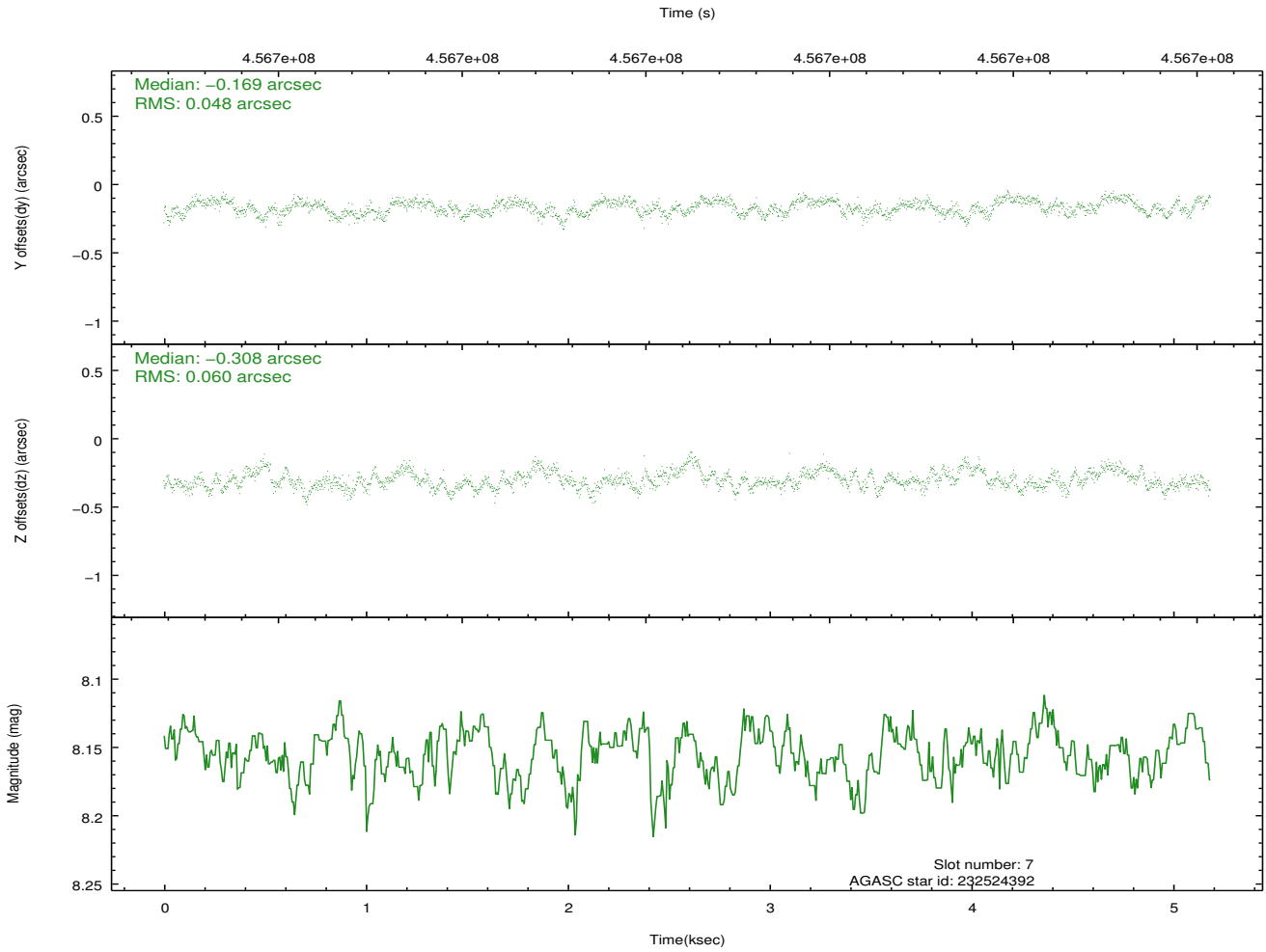
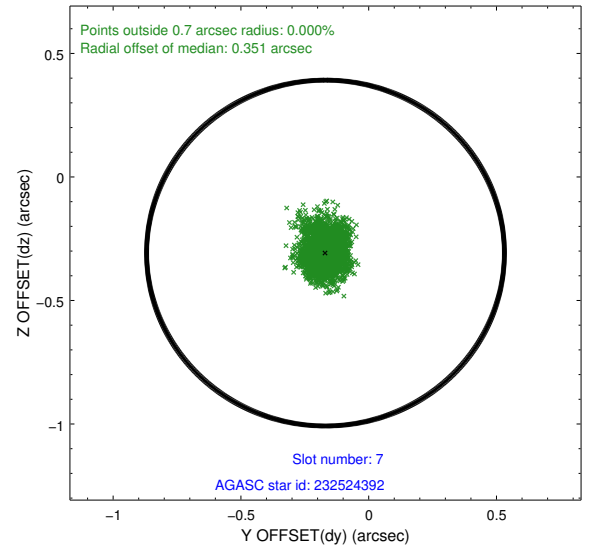
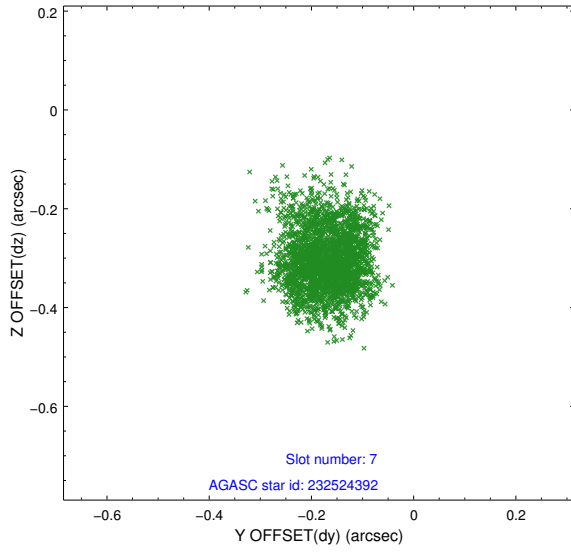
2.4.3 Slot 5



2.4.4 Slot 6

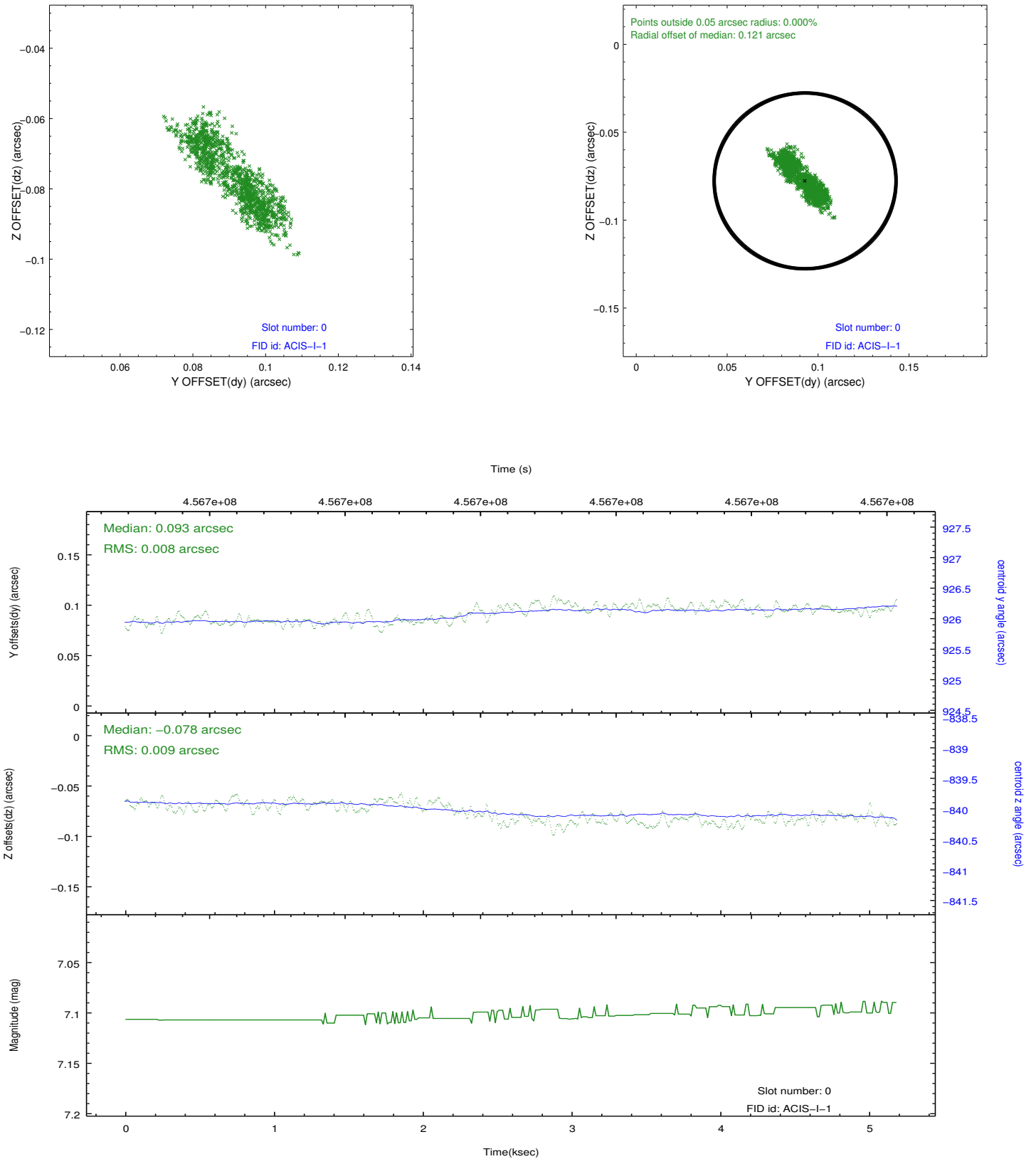


2.4.5 Slot 7

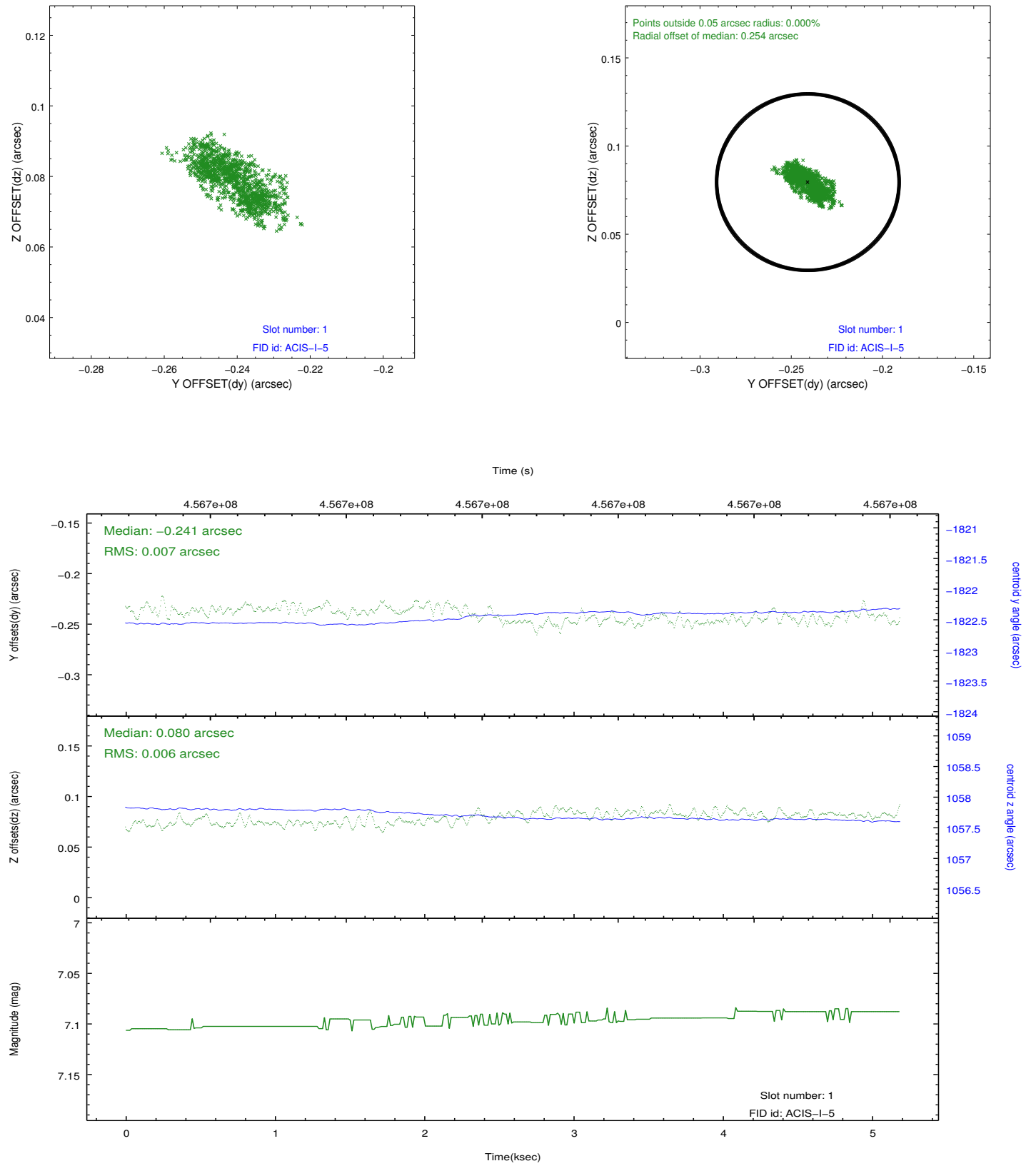


2.5 FID Slots

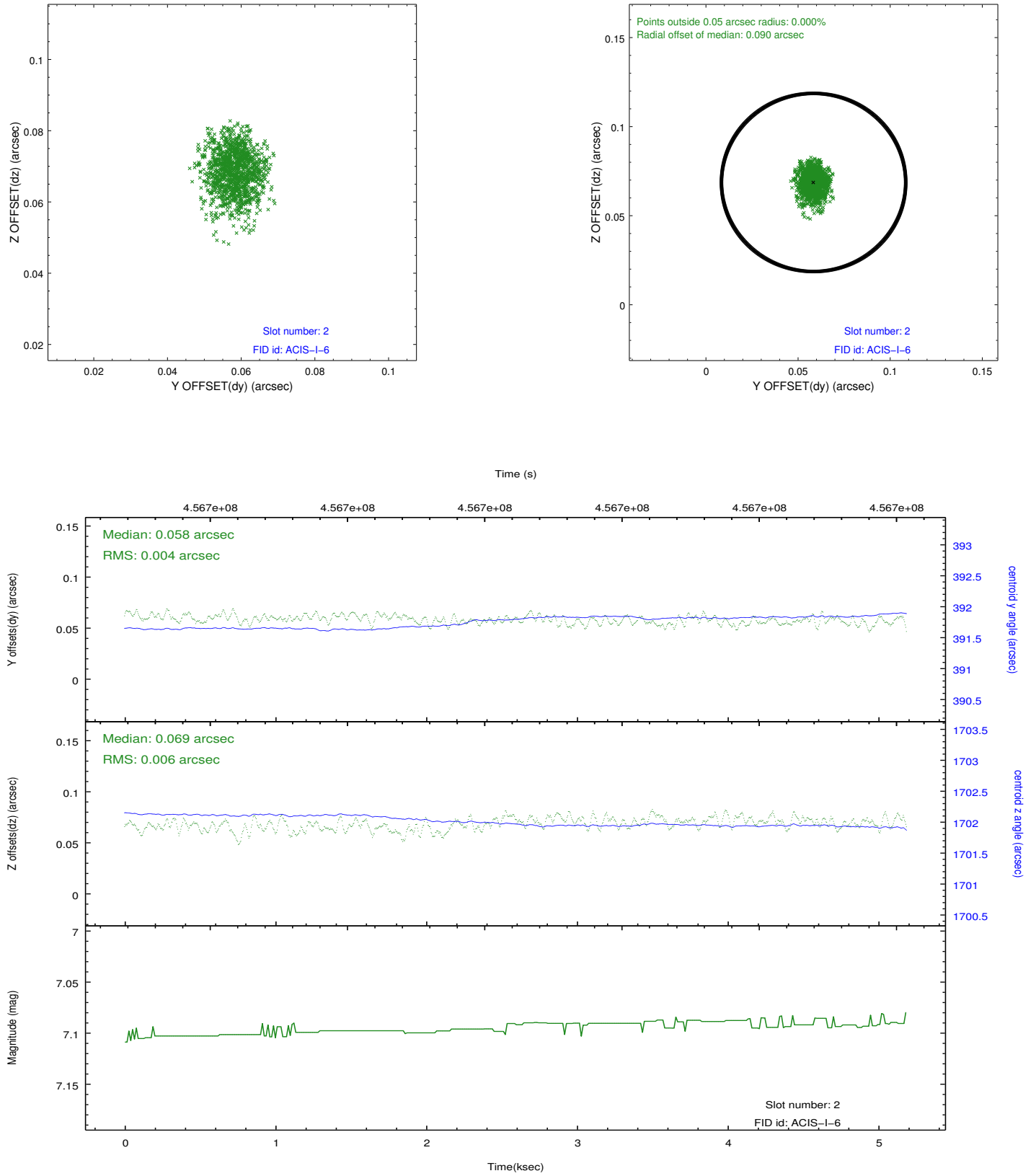
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2



A Summary

A.1 Status

V&V Scientist	Beth Sundheim
V&V Date (YYYY-MM-DD)	2012.06.22
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	5.0869610050321

A.2 Comments